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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,128	07/28/2005	Piotr Graczyk	102286.154US1	4053
23483 7590 04/11/2007 WILMER CUTLER PICKERING HALE AND DORR LLP 60 STATE STREET BOSTON, MA 02109			EXAMINER LAMBKIN, DEBORAH C	
			ART UNIT	PAPER NUMBER
			1626	
SHORTENED STATUTORY PERIOD OF RESPONSE		NOTIFICATION DATE	DELIVERY MODE	
31 DAYS		04/11/2007	ELECTRONIC	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 31 DAYS from 04/11/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

teresa.carvalho@wilmerhale.com  
tina.dougal@wilmerhale.com  
michael.mathewson@wilmerhale.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/509,128	<b>Applicant(s)</b> GRACZYK ET AL.	
	<b>Examiner</b> Deborah C. Lambkin	<b>Art Unit</b> 1626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 10 May 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-40, 48, 49, 58-60 and 62-66 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 1-40, 48, 49, 58-60 and 62-66 are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

DEBORAH C. LAMBKIN  
PRIMARY EXAMINER

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Election/Restrictions*

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R" are not or do not contain a het group, X is NR5, Y is absent, CR6R6 or C1-4 alkylene and Z is O or S.

Group II, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R" are not or do not contain a het group, X is O or S, Y is absent, CR6R6 or C1-4 alkylene and Z is O or S.

Group III, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R" are not or do not contain a het group, X is alkylene, Y is absent, CR6R6 or C1-4 alkylene and Z is O or S.

Group IV, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R" are not or do not contain a het group, X is NR5, Y is NR6, and Z is O or S.

Group V, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R" are not or do not contain a het group, X is NR5, Y is O and Z is O or S.

Group VI, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R" are not or do not contain a het group, X is NR5, Y is NR6 and Z is NR7.

Group VII, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R" are not or do not contain a het group, X is NR5, Y is O and Z is NR7.

Art Unit: 1626

Group VIII, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R'' are not or do not contain a het group, X is O or S, Y is NR6 and Z is O or S.

Group IX, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R'' are not or do not contain a het group, X is O or S, Y is NR6 and Z is NR7.

Group X, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R'' are not or do not contain a het group, X is alkylene, Y is O and Z is O or S.

Group XI, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R'' are not or do not contain a het group, X is C1-4 alkylene, Y is O and Z is NR7.

Group XII, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R'' are not or do not contain a het group, X is C1-4 alkylene, Y is NR6 and Z is O or S.

Group XIII, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R'' are not or do not contain a het group, X is C1-4 alkylene, Y is NR6 and Z is NR7.

Group XIV, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R'' are not or do not contain a het group, X is C1-4 alkylene, Y is absent, CR6R6 or C1-4 alkylene and Z is O or S.

Group XV, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R'' are not or do not contain a het group, X is C1-4 alkylene, Y is absent, CR6R6 or C1-4 alkylene and Z is NR7.

Group XVI, claim(s) 1-40,48-49 and 64-66, drawn to compounds, compositions, processes and methods of Formula I wherein R, R' and R'' are not or do not contain a het group and X, Y and Z is combination not covered by any of the above groups.

Groups 17-32, correspond to the above 16 groups except that now in each instance R, R' and R'' are het or can contain het.

Group 33, claim(s) 58-60, drawn to an assay.

Group 34, claim(s) 62-63, drawn to a method which depend from a cancelled claim 61.

Art Unit: 1626

The inventions listed as Groups 1-34 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

- 1) in the case of the compounds, they fail to meet the definition of a Markush Group since they do not possess a substantial common core and the core does not present a novel feature over the prior art.
- 2) in the case of the additional assay method and other method, they do not fall into any of the five permissible combinations.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

The various het, non-het, amino, nitrile, amides, esters etc.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following The following claim(s) are generic: Claim 1 for example.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

Same as above for Markush practice.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

Art Unit: 1626

remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah C. Lambkin whose telephone number is 571-272-0698. The examiner can normally be reached on 9.00-5.30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on 571-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
DEBORAH C. LAMBKIN  
PRIMARY EXAMINER

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